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~~CLAIM 1~~

6. The process according to ~~any of claims 1 to 5~~, wherein the regenerator (43-45) is provided with a channel (44) for internal recirculation.

~~CLAIM 1~~

7. The process according to ~~any of claims 1 to 6~~, wherein the regenerator is provided with a dipleg (29; 45), which communicates with the riser of the reactor.

~~CLAIM 1~~

8. The process according to ~~any of claims 1 to 7~~, wherein the feedstock is dried in a drier (46-48) comprising a riser (46) having an axially annular cross section and being equipped with a multi-inlet cyclone (49) for the separation of dried matter from vaporized gases.

9. The process according to claim 8, wherein the drier is provided with a dipleg (48), which communicates with the riser (41) of the regenerator.

10. The process according to claim 8 or 9, wherein the drier (46-48) is provided with a channel (47) for internal circulation.

~~CLAIM 8~~

11. The process according to ~~any of claims 8 to 10~~, wherein the dipleg (45) of the regenerator communicates with the riser of the drier (46).

~~CLAIM 8~~

12. The process according to ~~any of the preceding claims~~, wherein the feedstock is thermally converted at a temperature of 400 - 1000 °C.

~~CLAIM 1~~

13. The process according to ~~any of the preceding claims~~, wherein the feedstock is selected from forestry residues and thinnings, agricultural residues, energy crops, peat, refuse derived fuel, wastes from sawmills, plywood, furniture and other mechanical forestry wastes, plastic wastes and waste slurries.

14. The process according to claim 13, wherein the feedstock is selected from straw, olive thinnings, willow, energy hay and Miscanthus.

15. An apparatus for thermally converting carbonaceous feedstocks, said apparatus

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